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LISTING OF THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

(Currently amended) A synchronous motor system comprising:
at least one synchronous motor that includes a field winding system;
a normal field <u>excitation</u> supply unit and a standby field <u>excitation</u> supply unit;
and

a control unit that normally connects said normal field <u>excitation</u> supply unit in circuit with said field winding system and that in response to a failure of said normal field <u>excitation</u> supply unit automatically changes over said field winding system from said normal field <u>excitation</u> supply unit to said standby field <u>excitation</u> supply unit.

2. (Currently amended) The synchronous motor system of claim 1, further comprising:

a sensor connected in circuit with said normal field <u>excitation</u> supply unit and said synchronous motor so as to provide a signal representative of an electrical parameter, and wherein said control unit responds to said signal deviating by a predetermined amount from a reference value of said parameter to automatically change said field winding system over to said standby field <u>excitation</u> supply unit.

3. (Currently amended) The synchronous motor system of claim 1, wherein said control unit controls a normal output switching mechanism to connect and disconnect said normal field <u>excitation</u> supply unit and a standby output switching mechanism to connect and disconnect said standby field <u>excitation</u> supply unit to and from said field winding system.

- 4. (Currently amended) The synchronous motor system of claim 1, wherein said synchronous motor is one of a plurality of synchronous motors that each have a field winding system, wherein said normal field <u>excitation</u> supply unit is one of a plurality of normal field <u>excitation</u> supply units, each of which is associated with a different one of said synchronous motors, wherein said control unit responds to a failure of any one of said normal field <u>excitation</u> supply units to change the field winding system of the associated synchronous motor over to the standby field <u>excitation</u> supply unit.
- (Currently amended) A synchronous motor system comprising:
 at least one synchronous motor that includes a field winding system;
 a normal field <u>excitation</u> supply unit, a standby field <u>excitation</u> supply unit and at least one switching mechanism;

a sensor connected in circuit with said normal field <u>excitation</u> supply unit and said synchronous motor so as to provide a signal representative of an electrical parameter; and

a control unit that normally operates said switching mechanism to connect said normal field <u>excitation</u> supply unit in circuit with said field winding system and that, in response to said signal deviating by a predetermined amount from a reference value of said parameter, automatically operates said switching mechanism to change over said field winding system from said normal field <u>excitation</u> supply unit to said standby field excitation supply unit.

6. (Currently amended) A method for recovery from a loss of a normal field excitation supply unit of a synchronous motor comprising:

normally connecting said normal field <u>excitation</u> supply unit in circuit with a field winding system of said synchronous motor;

detecting a failure of said normal field <u>excitation</u> supply unit; and in response to said detected failure, automatically changing over said field winding system from said field normal <u>excitation</u> supply unit to a standby field <u>excitation</u> supply unit.

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- 7. (Original) The method of claim 6, wherein said failure corresponds to a predetermined deviation from a reference value of a signal that is sensed from said synchronous motor field winding system.
- 8. (Currently amended) The method of claim 6, wherein the steps of connecting, detecting and automatically changing over are performed for each of a plurality of synchronous motors, and wherein said standby <u>excitation supply</u> field unit is shared by all of said synchronous motors.